



*Training Course:
Alarm Management*

*5 - 9 July 2027
Barcelona (Spain)*

Training Course: Alarm Management

Training Course code: HE7024 From: 5 - 9 July 2027 Venue: Barcelona (Spain) - Training Course Fees: 6300 € Euro

Introduction

Distributed Control Systems DCS have simplified alarm creation, often leading to alarm proliferation and ineffective monitoring. Poor alarm management, absence of clear policies, and human factors can result in ignored or missed critical alarms, increasing operational risks. This seminar focuses on improving alarm management through best practices, performance assessment, operator readiness evaluation, and strategies to enhance plant safety, reliability, and operational effectiveness.

Objectives

By the end of the program, participants will be able to:

- Apply techniques, tools, standards, and procedures to improve alarm system performance and plant operations.
- Understand the business impact of poor alarm management through case study analysis.
- Integrate best-practice alarm management strategies effectively into existing plant systems.
- Measure alarm system and operator performance using multiple evaluation techniques.
- Ensure that emergency response systems are optimized to handle potential alarm system failures efficiently.

Target Audience

- Control Room Operators
- Process Engineers
- HSE and Safety Engineers
- Operations Supervisors
- DCS/Instrumentation Technicians
- Plant Managers responsible for safety and process performance

Outlines

DAY 1: Introduction & Key Issues

- EEMUA 191 Guidance Document
- Alarm Management Philosophy and Justification
- Alarm Analysis and Rationalization
- Benchmarking and Assessment

- Project Planning for Alarm Management
- Continuous Improvement in Alarm Systems
- Functional definitions of alarm systems
- Case Study: Milford Haven Texaco Refinery, 1994

DAY 2: Principles of an Alarm Management Program

- Managing Improvement Programs and Stakeholder Involvement
- Personal and Team Targets
- Controlling Alarm Proliferation
- Modifications and System Updates
- Hazard Assessment: Risk to People and Environment
- Strategy and Culture of Improvement
- Operator Involvement and "No-Blame" Reporting
- Integration to Boost Plant Production
- Case Study & DVD: Piper Alpha

DAY 3: Measuring Performance & Human Factors

- Human Factor Issues in Alarm Systems IEC61508
- Operator Questionnaires and Procedure Improvements
- Managing Unwanted Alarms
- Logical Processing of Alarms
- Case Histories of Alarm Failures
- Business Needs vs. Safety Conflicts
- Case Study & DVD: Bhopal, India Union Carbide

DAY 4: Legislation & Self-Evaluation

- Operator Interface Assessment: Alarm Overload Analysis
- Management Responsibilities and Legislation
- Physical Assessment Trees
- Lessons from Business Case Studies
- Self-Evaluation Questionnaires
- Alerting Processes and Communications
- Emergency Operations Centers
- Stress Management for Control Room Operators
- BP Case Studies: Texas 2005, Alaska 2006, Gulf of Mexico 2010

DAY 5: Emergency Response & Major Incidents

- Departmental Roles and Responsibilities
- First Responders and Emergency Response Teams
- Role of Incident On-Scene Commander
- Shelter or Evacuation Workshop
- Designing Drills and Exercises

Registration form on the Training Course: Alarm Management

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